

PLUS Search Results for S/N 10619233, Searched July 27, 2005

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

4936134	5590453
5490312	5675887
4293258	5655289
5323946	5946784
5046348	3596496
5605070	3657915
4368838	3646800
5375953	3906776
5473806	3886783
4261245	3842649
4359813	3831424
4612793	4045994
4307598	4059981
4425782	4136547
4877363	4150467
4919577	4065952
5259713	4067223
6691546	4088004
5620287	4351179
4630460	4388753
4913609	4447944
5403135	4517820
4920833	4541761
4140000	4585382
4321814	4598571
5009556	4754643
5473805	4836003
5603151	4872332
6163945	4972985
6684470	5337463
5400942	5519927
6115900	5531551
4592136	5581867
4127345	5600878
4356719	5661887
4432679	5666710
4440336	5960667
4487096	6032510
4629380	6125680
4836008	6183179
5323521	6240613
5658107	6256854
6079604	6347449
5804012	6751841
4628722	6877204
5496140	6905295
4586363	4368631
4836728	4441560
4888974	4253521
5184497	5048612

Titles of Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10619233 on July 27, 2005

- 14 29/243.521 (8 OR, 6 XR)  
Class 029 : METAL WORKING  
29/700 MEANS TO ASSEMBLE OR DISASSEMBLE  
29/243.5 .Overedge assembling means  
29/243.517 ..Annular work  
29/243.519 ...With second workpiece inside annular work  
                    one workpiece moved to shape the other  
29/243.521 ....Comprising driver for snap-off-mandrel  
                    fastener; e.g., Pop (TM) riveter
- 13 411/34 (7 OR, 6 XR)  
Class 411 : EXPANDED, THREADED, DRIVEN, HEADED,  
                    TOOL-DEFORMED, OR LOCKED-THREADED FASTENER  
411/15 HAVING SEPARATE EXPANDER MEANS  
411/34 .Bulged by axially contracting ends
- 12 29/243.525 (7 OR, 5 XR)  
Class 029 : METAL WORKING  
29/700 MEANS TO ASSEMBLE OR DISASSEMBLE  
29/243.5 .Overedge assembling means  
29/243.517 ..Annular work  
29/243.519 ...With second workpiece inside annular work  
                    one workpiece moved to shape the other  
29/243.521 ....Comprising driver for snap-off-mandrel  
                    fastener; e.g., Pop (TM) riveter  
29/243.523 .....Pneumatic- or fluid-actuated tool  
29/243.524 .....Liquid  
29/243.525 .....And gas
- 12 29/243.53 (1 OR, 11 XR)  
Class 029 : METAL WORKING  
29/700 MEANS TO ASSEMBLE OR DISASSEMBLE  
29/243.5 .Overedge assembling means  
29/243.53 ..Riveter
- 12 411/43 (9 OR, 3 XR)  
Class 411 : EXPANDED, THREADED, DRIVEN, HEADED,  
                    TOOL-DEFORMED, OR LOCKED-THREADED FASTENER  
411/15 HAVING SEPARATE EXPANDER MEANS  
411/39 .Frangible member  
411/43 ..Frangible mandrel
- 11 29/243.523 (6 OR, 5 XR)  
Class 029 : METAL WORKING  
29/700 MEANS TO ASSEMBLE OR DISASSEMBLE  
29/243.5 .Overedge assembling means  
29/243.517 ..Annular work  
29/243.519 ...With second workpiece inside annular work  
                    one workpiece moved to shape the other  
29/243.521 ....Comprising driver for snap-off-mandrel  
                    fastener; e.g., Pop (TM) riveter  
29/243.523 .....Pneumatic- or fluid-actuated tool
- 10 29/812.5 (7 OR, 3 XR)  
Class 029 : METAL WORKING  
29/700 MEANS TO ASSEMBLE OR DISASSEMBLE  
29/809 .With magazine supply  
29/811.2 ..Assembling means comprising  
                    hand-manipulatable implement

- 29/812.5 ...Comprising driver for snap-off-mandrel fastener; e.g., Pop (TM) riveter
- 10 72/453.17 (0 OR, 10 XR)  
 Class 072 : METAL DEFORMING  
 72/429 WITH MEANS TO DRIVE TOOL  
 72/453.01 .Including pneumatic- or fluid-actuated tool support  
 72/453.15 ..Randomly manipulated or work-supported tool  
 72/453.16 ...With handle for manual manipulation  
 72/453.17 ....Riveting tool
- 9 72/114 (2 OR, 7 XR)  
 Class 072 : METAL DEFORMING  
 72/67 BY USE OF TOOL ACTING DURING RELATIVE ROTATION BETWEEN TOOL AND WORK ABOUT INTERNAL CENTER (E.G.,  
 GYRATING OR ROTATING TOOL)  
 72/112 .Tool orbiting or rotating about an axis  
 72/114 ..Helically-grooved tool threadedly engaging work
- 8 29/525.06 (1 OR, 7 XR)  
 Class 029 : METAL WORKING  
 29/592 METHOD OF MECHANICAL MANUFACTURE  
 29/428 .Assembling or joining  
 29/525.01 ..By applying separate fastener  
 29/525.05 ...Fastener deformed after application  
 29/525.06 ....Riveting
- 7 72/391.4 (4 OR, 3 XR)  
 Class 072 : METAL DEFORMING  
 72/380 BY RELATIVELY MOVABLE OFFSET TOOL-FACES (E.G., FOR BENDING OR DRAWING)  
 72/386 .With tool motion in fixed path  
 72/391.2 ..Concentric or telescoped tools  
 72/391.4 ...Tool inside hollow fastener
- 7 72/391.6 (4 OR, 3 XR)  
 Class 072 : METAL DEFORMING  
 72/380 BY RELATIVELY MOVABLE OFFSET TOOL-FACES (E.G., FOR BENDING OR DRAWING)  
 72/386 .With tool motion in fixed path  
 72/391.2 ..Concentric or telescoped tools  
 72/391.4 ...Tool inside hollow fastener  
 72/391.6 ....With fastener loader or supply
- 7 72/391.8 (2 OR, 5 XR)  
 Class 072 : METAL DEFORMING  
 72/380 BY RELATIVELY MOVABLE OFFSET TOOL-FACES (E.G., FOR BENDING OR DRAWING)  
 72/386 .With tool motion in fixed path  
 72/391.2 ..Concentric or telescoped tools  
 72/391.4 ...Tool inside hollow fastener  
 72/391.8 ....Helically ribbed tool
- 7 411/70 (1 OR, 6 XR)  
 Class 411 : EXPANDED, THREADED, DRIVEN, HEADED, TOOL-DEFORMED, OR LOCKED-THREADED FASTENER  
 411/15 HAVING SEPARATE EXPANDER MEANS  
 411/44 .Including sleeve and distinct tapered expander (e.g., anchor bolt type)

- 411/70                   ..Expander having integral pull stem
- 6   29/512               (2 OR, 4 XR)  
       Class    029 : METAL WORKING  
       29/592       METHOD OF MECHANICAL MANUFACTURE  
       29/428       .Assembling or joining  
       29/505       ..Joining by deforming  
       29/509       ...Overedge assembling of seated part  
       29/512       ....By flaring inserted cup or tube end
- 6   227/112             (2 OR, 4 XR)  
       Class    227 : ELONGATED-MEMBER-DRIVING APPARATUS  
       227/107       WITH MEANS TO MOVE OR GUIDE MEMBER INTO DRIVING  
                       POSITION  
       227/112       .Fluid-contact member-feed means
- 5   227/2               (2 OR, 3 XR)  
       Class    227 : ELONGATED-MEMBER-DRIVING APPARATUS  
       227/2       WITH CONTROL MEANS RESPONSIVE TO SENSED  
                       CONDITION
- 4   29/243.527          (3 OR, 1 XR)  
       Class    029 : METAL WORKING  
       29/700       MEANS TO ASSEMBLE OR DISASSEMBLE  
       29/243.5       ..Overedge assembling means  
       29/243.517      ..Annular work  
       29/243.519      ...With second workpiece inside annular work  
                       one workpiece moved to shape the other  
       29/243.521      ....Comprising driver for snap-off-mandrel  
                       fastener; e.g., Pop (TM) riveter  
       29/243.527      .....Having allochiral actuating handles
- 4   29/243.528          (4 OR, 0 XR)  
       Class    029 : METAL WORKING  
       29/700       MEANS TO ASSEMBLE OR DISASSEMBLE  
       29/243.5       ..Overedge assembling means  
       29/243.517      ..Annular work  
       29/243.519      ...With second workpiece inside annular work  
                       one workpiece moved to shape the other  
       29/243.521      ....Comprising driver for snap-off-mandrel  
                       fastener; e.g., Pop (TM) riveter  
       29/243.528      .....Having repositionable annulus engaging  
                       tool
- 4   29/524.1            (1 OR, 3 XR)  
       Class    029 : METAL WORKING  
       29/592       METHOD OF MECHANICAL MANUFACTURE  
       29/428       .Assembling or joining  
       29/505       ..Joining by deforming  
       29/522.1       ...Radially expanding part in cavity, aperture,  
                       or hollow body  
       29/524.1       ....Riveting
- 4   D8/51               (0 OR, 4 XR)  
       Class    D08 : TOOLS AND HARDWARE  
       D8/14       OTHER TOOLS AND IMPLEMENTS  
       D8/51       .With relative movement of parts while  
                       performing function
- 4   411/501             (0 OR, 4 XR)  
       Class    411 : EXPANDED, THREADED, DRIVEN, HEADED,  
                       TOOL-DEFORMED, OR LOCKED-THREADED FASTENER  
       411/500       HEADED FASTENER ELEMENT

- 411/501 .Having plastically flowable or deflectable end, e.g., rivet, etc.
- 3 29/243.526 (1 OR, 2 XR)  
 Class 029 : METAL WORKING  
 29/700 MEANS TO ASSEMBLE OR DISASSEMBLE  
 29/243.5 .Overedge assembling means  
 29/243.517 ..Annular work  
 29/243.519 ...With second workpiece inside annular work  
                   one workpiece moved to shape the other  
 29/243.521 ....Comprising driver for snap-off-mandrel  
                   fastener; e.g., Pop (TM) riveter  
 29/243.526 .....Having rotary drive mechanism
- 3 29/509 (0 OR, 3 XR)  
 Class 029 : METAL WORKING  
 29/592 METHOD OF MECHANICAL MANUFACTURE  
 29/428 .Assembling or joining  
 29/505 ..Joining by deforming  
 29/509 ...Overedge assembling of seated part
- 3 29/715 (0 OR, 3 XR)  
 Class 029 : METAL WORKING  
 29/700 MEANS TO ASSEMBLE OR DISASSEMBLE  
 29/709 .With control means energized in response to  
                   activator stimulated by condition sensor  
 29/714 ..Responsive to work or work-related machine  
                   element  
 29/715 ...With means to fasten by deformation
- 3 29/720 (0 OR, 3 XR)  
 Class 029 : METAL WORKING  
 29/700 MEANS TO ASSEMBLE OR DISASSEMBLE  
 29/720 .With signal, scale, illuminator, or optical  
                   viewer
- 3 411/29 (1 OR, 2 XR)  
 Class 411 : EXPANDED, THREADED, DRIVEN, HEADED,  
                   TOOL-DEFORMED, OR LOCKED-THREADED FASTENER  
 411/15 HAVING SEPARATE EXPANDER MEANS  
 411/29 .With hole forming means
- 3 411/55 (0 OR, 3 XR)  
 Class 411 : EXPANDED, THREADED, DRIVEN, HEADED,  
                   TOOL-DEFORMED, OR LOCKED-THREADED FASTENER  
 411/15 HAVING SEPARATE EXPANDER MEANS  
 411/44 .Including sleeve and distinct tapered expander  
                   (e.g., anchor bolt type)  
 411/55 ..Expander threadedly engaged by mover
- 3 470/29 (0 OR, 3 XR)  
 Class 470 : THREADED, HEADED FASTENER, OR WASHER MAKING:  
                   PROCESS AND APPARATUS  
 470/1 PROCESS  
 470/27 .Making headed fastener, e.g., rivet or nail,  
                   etc.  
 470/28 ..Rivet type  
 470/29 ...Hollow type
- 2 29/407.05 (1 OR, 1 XR)  
 Class 029 : METAL WORKING  
 29/592 METHOD OF MECHANICAL MANUFACTURE  
 29/407.01 .With testing or indicating

29/407.05 ..Quantitative measuring or gauging

2 29/446 (0 OR, 2 XR)

Class 029 : METAL WORKING  
29/592 METHOD OF MECHANICAL MANUFACTURE  
29/428 .Assembling or joining  
29/446 ..With prestressing of part

2 29/469.5 (1 OR, 1 XR)

Class 029 : METAL WORKING  
29/592 METHOD OF MECHANICAL MANUFACTURE  
29/428 .Assembling or joining  
29/469.5 ..Metal deforming with nonmetallic bonding

2 29/523 (0 OR, 2 XR)

Class 029 : METAL WORKING  
29/592 METHOD OF MECHANICAL MANUFACTURE  
29/428 .Assembling or joining  
29/505 ..Joining by deforming  
29/522.1 ...Radially expanding part in cavity, aperture,  
or hollow body  
29/523 ....Radially expanding internal tube

2 29/703 (1 OR, 1 XR)

Class 029 : METAL WORKING  
29/700 MEANS TO ASSEMBLE OR DISASSEMBLE  
29/701 .With means to regulate operation by use of  
templet, tape, card or other replaceable information

supply

29/702 ..With comparator  
29/703 ...Computer input

2 72/21.1 (0 OR, 2 XR)

Class 072 : METAL DEFORMING  
72/6.1 WITH USE OF CONTROL MEANS ENERGIZED IN RESPONSE  
TO ACTIVATOR STIMULATED BY CONDITION SENSOR  
72/20.1 .Sensing tool or tool-linked part  
72/21.1 ..Including plural sensors or sensor responsive  
to plural conditions

2 72/370.1 (0 OR, 2 XR)

Class 072 : METAL DEFORMING  
72/362 PROCESS  
72/367.1 .Tube making or reshaping  
72/370.1 ..End forming

2 72/453.19 (0 OR, 2 XR)

Class 072 : METAL DEFORMING  
72/429 WITH MEANS TO DRIVE TOOL  
72/453.01 .Including pneumatic- or fluid-actuated tool  
support  
72/453.18 ..Having hydraulic or pneumatic return  
72/453.19 ...Riveting tool

2 166/237 (0 OR, 2 XR)

Class 166 : WELLS  
166/237 DETENTS OR CLUTCHES

2 166/382 (2 OR, 0 XR)

Class 166 : WELLS  
166/244.1 PROCESSES  
166/381 .Placing or shifting well part

- 166/382 ..Providing support for well part (e.g., hanger or anchor)
- 2 219/98 (0 OR, 2 XR)  
 Class 219 : ELECTRIC HEATING  
 219/50 METAL HEATING (E.G., RESISTANCE HEATING)  
 219/78.01 .For bonding with pressure (e.g., resistance welding)  
 219/97 ..Flash  
 219/98 ...Stud
- 2 219/99 (0 OR, 2 XR)  
 Class 219 : ELECTRIC HEATING  
 219/50 METAL HEATING (E.G., RESISTANCE HEATING)  
 219/78.01 .For bonding with pressure (e.g., resistance welding)  
 219/97 ..Flash  
 219/98 ...Stud  
 219/99 ....Methods
- 2 227/116 (0 OR, 2 XR)  
 Class 227 : ELONGATED-MEMBER-DRIVING APPARATUS  
 227/107 WITH MEANS TO MOVE OR GUIDE MEMBER INTO DRIVING POSITION  
 227/114 .Including means other than the driver to separate leading member from a supply  
 227/116 ..Rectilinear motion
- 2 411/15 (1 OR, 1 XR)  
 Class 411 : EXPANDED, THREADED, DRIVEN, HEADED, TOOL-DEFORMED, OR LOCKED-THREADED FASTENER  
 411/15 HAVING SEPARATE EXPANDER MEANS
- 2 411/183 (0 OR, 2 XR)  
 Class 411 : EXPANDED, THREADED, DRIVEN, HEADED, TOOL-DEFORMED, OR LOCKED-THREADED FASTENER  
 411/81 THREADED FASTENER LOCKED TO A DISCREET STRUCTURE (E.G., PLATE, RAIL, WHEEL)  
 411/172 .Nut, and means to engage substructure on its opposite faces for retaining nut at aperture therein, formed as unitary component  
 411/176 ..Fastener having a deformable portion or deforms substructure (e.g., prong)  
 411/183 ...Nut assembled to substructure by plastically deformable region on nut
- 2 411/42 (0 OR, 2 XR)  
 Class 411 : EXPANDED, THREADED, DRIVEN, HEADED, TOOL-DEFORMED, OR LOCKED-THREADED FASTENER  
 411/15 HAVING SEPARATE EXPANDER MEANS  
 411/39 .Frangible member  
 411/42 ..Sleeve including weakened portion
- 2 411/69 (0 OR, 2 XR)  
 Class 411 : EXPANDED, THREADED, DRIVEN, HEADED, TOOL-DEFORMED, OR LOCKED-THREADED FASTENER  
 411/15 HAVING SEPARATE EXPANDER MEANS  
 411/44 .Including sleeve and distinct tapered expander (e.g., anchor bolt type)  
 411/69 ..Expander or sleeve extruded during expansion
- 2 411/82 (0 OR, 2 XR)

10619233\_CLSTITLES.txt  
Class 411 : EXPANDED, THREADED, DRIVEN, HEADED,  
411/82 TOOL-DEFORMED, OR LOCKED-THREADED FASTENER  
INCLUDING SETTABLE MATERIAL



Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L10	8296	(thin film layer coating ) near2 ((force stress strain pressure compression) near3 (measur\$5 test\$4 detect\$4 determin\$4 sens\$4 identi\$6 evaluat\$5 estimat\$5 transducer gauge cell monitor\$4 comput\$5 inspect\$5 meter calculat\$4))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/07/27 10:05
L11	238	1 near3 (fastener rivet blind scREW nut)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/07/27 09:58
L12	2	10 near3 (fastener rivet blind scREW nut)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/07/27 09:58
L13	641	10 and (fastener rivet blind scREW nut)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/07/27 09:59
L14	10	10 near7 (fastener rivet blind scREW nut)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/07/27 10:03
L15	1220	blind near3 (fasten\$5 rivet tool scREW nut bolt).clm.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/07/27 10:05
L16	1	15 and ((piezo\$6 ) near3 (measur\$5 test\$4 detect\$4 determin\$4 sens\$4 identi\$6 evaluat\$5 estimat\$5 transducer gauge cell monitor\$4 comput\$5 inspect\$5 meter calculat\$4)).clm.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/07/27 10:06